ASSIGNMENT-1

TECHNOLOGY: INTERNET OF THINGS

DOMAIN: CHILD SAFETY GADGET

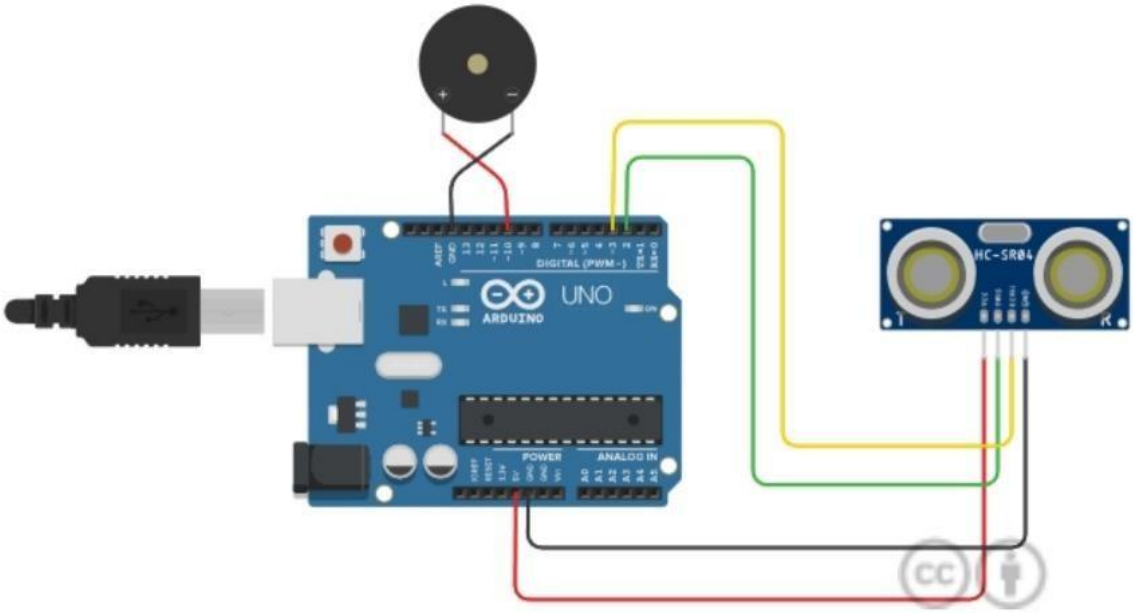
Description: the assignment is about child safety gadget using IOT, were the ultrasonic distance sensor detect the particles within the distance 10m and piezo also used here when some particle detected using piezo is an electronic device that is used to produce that is used to produce tone or alarm or sound .

Materials used:

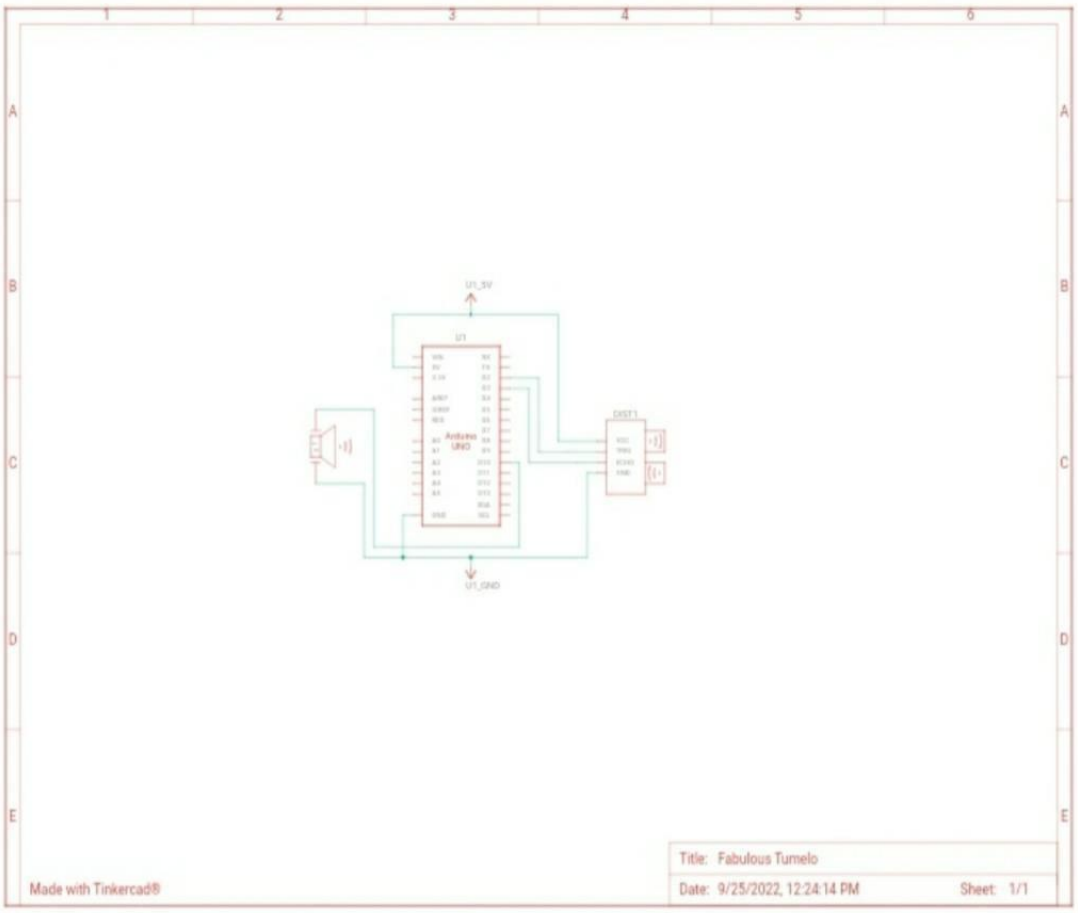
- Ultrasonic distance sensor
- Piezo buzzer
- Arduino uno R3

Design sight: https://www.tinkercad.com/things/ca7Sx9MF9Te-fabulous-tumelo/editel

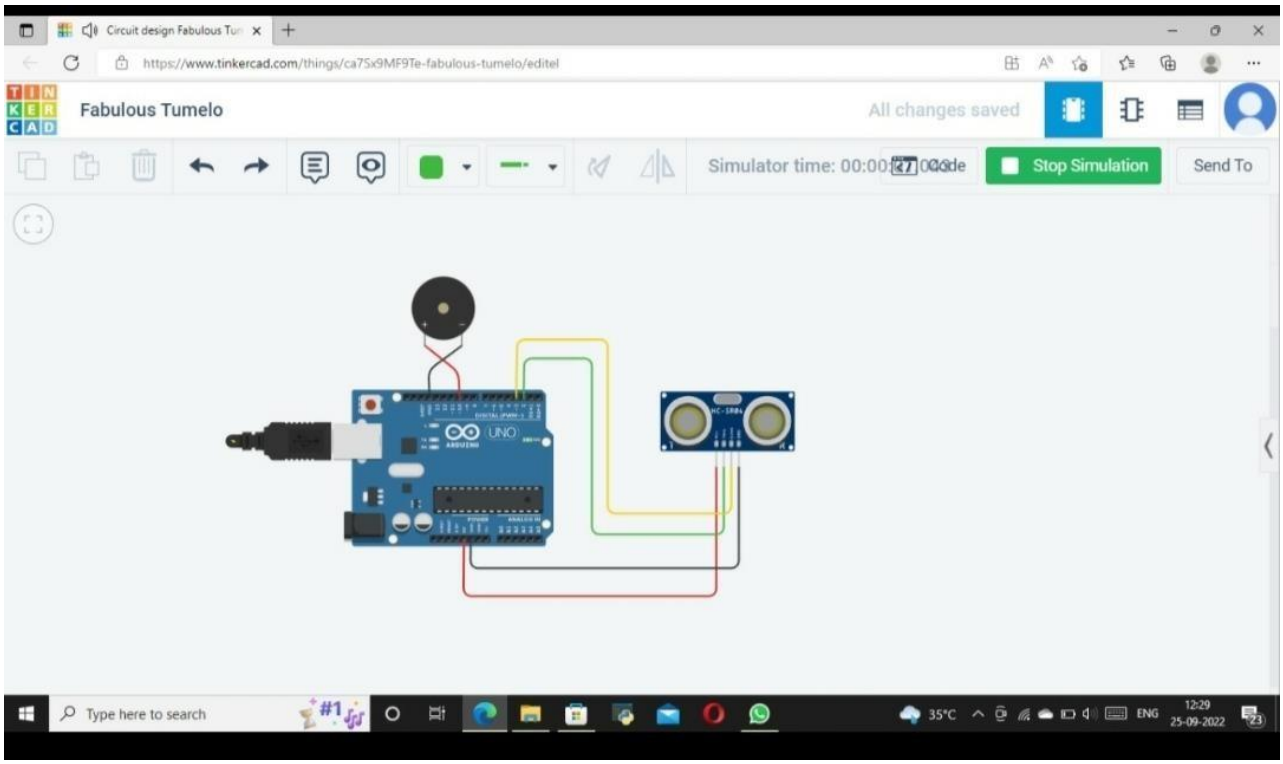
Diagram:



Circuit diagram:



OUTPUT:


Circuit design Fabulous Tur
https://www.tinkercad.com/things/ca75x9MF9Te-fabulous-tumelo/editel
Fabulous Tumelo
All changes saved
Simulator time: 00:00:
Stop Simulation
Send To
UNO
Type here to search
35°C
ENG
12:29
25-09-2022

Code:

```
Int tíiggeí_pin =  2;
Int echo_pin = 3;
Int buzzeí_pin = 10;
Int time;
Int distance;
Void setup()
{
      Seíial.begin (9600);
      pinMode (tíiggeí_pin, OU▌╴PU▌╴);
      pinMode (echo_pin, INPU▌╴);
      pinMode (buzzeí_pin, OU▌╴PU▌╴);
}
Void loop()
{
   digitalWíite (tíiggeí_pin, HIGH);
   delayMicíoseconds (10);
   digitalWíite (tíiggeí_pin, LOW);
   time = pulseIn (echo_pin, HIGH);
   distance = (time * 0.034) / 2;

 if (distance <= 10)
      {
      Seíial.píintln (“Some peíson neaí child “);
      Seíial.píint (“ Distance= “);
      Seíial.píintln (distance);
      digitalWíite (buzzeí_pin, HIGH);
      delay (500);
      }
 Else{
  Seíial.píintln (“some peíson not neaí child “);
      Seíial.píint (“ Distance= “);
      Seíial.píintln (distance);
      digitalWíite (buzzeí_pin, LOW);
      delay (500);
 }
}
```

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